

ABSTRACT OF THE DISCLOSURE

A method and apparatus for transmitting and receiving data using a continuous tone control squelch system (CTCSS), which can transmit and receive data simultaneously with voice communication using the CTCSS. The apparatus is capable of transmitting and receiving a global positioning system (GPS) data signal containing a position value together with a voice signal using the CTCSS by a wireless communication terminal.

Therefore, a user of the terminal can notify another party of his or her current position while conducting a voice conversation therewith. The method comprises dividing an effective frequency band of the CTCSS into regular intervals, setting the divided intervals as channels and assigning data code values respectively to the set channels. For data transmission, CTCSS frequency signals corresponding respectively to code values of specific data are successively transmitted. For data reception, successively received CTCSS frequency signals are converted into corresponding data code values, respectively. In this manner, data can be transmitted and received together with a voice signal.